Extreme environmental events are becoming more common in this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders in understanding the upheaval that these extreme environmental events are causing. The Remote Sensing of Environmental Change minor program (RESC) is designed to build students’ understanding global environmental change in order to assess their impacts on the physical and human landscapes, and to use remote sensing as an analytical tool for identifying the impacts. Students in the minor program will receive technical training in remote sensing to examine how extreme environmental events shape human society and ecosystems from the interdisciplinary perspective afforded by the field of Geography. The minor will provide students with the necessary knowledge and skills to apply the latest geographic science concepts and techniques in exploring, planning for, and responding to environmental events. These skills are in great demand in fields such as public policy, sustainable development, disaster preparedness, mitigation, and adaption, in the private, nonprofit, and governmental sectors.

### The Required Curriculum: (18 cr)

- **Foundation Course** (3 cr)
  - **Natural Disasters:** GEOG 140 (3 cr)
  - Or
  - **Introduction to Methods of Geospatial Intelligence and Analysis:** Geog 170 (3 cr)

- **Technical Geography Courses** (6 cr)
  - **Introduction to Remote Sensing:** GEOG 372 (3 cr)
  - **Advanced Remote Sensing:** GEOG 472 (3 cr)

- **Choose one Physical Geography Course** (3 cr)
  - **Geomorphology:** GEOG 340 (3 cr)
  - **Biogeography:** GEOG 342 (3 cr)
  - **Climatology:** GEOG 345 (3 cr)

- **Choose one Human Dimension of Global Change Course** (3 cr)
  - **Regional Geography: China** GEOG 328B (3 cr)
  - **Regional: Sub-Saharan Africa:** GEOG 328C (3 cr)
  - **Regional: Latin America:** GEOG 313 (3 cr)
  - **Society and Sustainability:** GEOG 330 (3 cr)
  - **Intro to Human Dimensions of Global Change:** GEOG 331 (3 cr)
  - **Economic Geography:** GEOG 332 (3 cr)

- **Choose one Advanced Integrated Course** (3 cr)
  - **Land Use, Climate Change, and Sustainability:** GEOG 415 (3 cr)
  - **Modeling Human-Environment Interactions:** GEOG 416 (3 cr)
  - **Cultural and Natural Resource Management:** GEOG 431 (3 cr)
  - **Coastal Oceans:** GEOG 441 (3 cr)
  - **Biogeography & Environmental Change:** GEOG 442 (3 cr)

### Admission to the Program:
There are no special requirements for the Minor Program in Remote Sensing of Environmental Change. The Department of Geographical Sciences welcomes students from every area of study. GIS and ENSP students are also welcome to enroll in this minor.

### Requirements:
- All credits for the minor must be taken in the Department of Geographical Sciences at the University of Maryland, College Park.
- All courses must be completed with a grade of “C-” or better.
- No more than six credits are to be included in the Minor and student's major, supporting courses, and college requirements.
- Must complete 18 credits in Geography

### Application form attached.
Return to Advising Office, Lefrak Hall 2181M
www.geog.umd.edu
Email: geog-adviser@umd.edu
Phone: 301-405-4073

### Professional Opportunities:
The Remote Sensing of Environmental Change Minor Program is designed to equip students who are in interested working for USAID, USDA, FEMA, NASA, USGS, EPA and other governmental and non-governmental agencies, with a competitive edge through the minor’s coursework. Students are encouraged to seek internship experiences with relevant agencies to gain practical experience. Please see the Geographical Sciences’ Career Resources webpage for more information:
http://www.geog.umd.edu/content/other-
**Department of Geographical Sciences University of Maryland, College Park**

**MINOR APPLICATION**

**MINOR IN REMOTE SENSING OF ENVIRONMENTAL CHANGE (RSEC)**

**NAME OF STUDENT_______________________________________________________**

**UNIVERSITY I.D. NUMBER________________________________________________**

**MAJOR______________________ SEMESTER DECLARED: ___________**

**TELEPHONE WHERE YOU CAN BE REACHED DURING THE DAY_______________________**

**E-MAIL__________________________________**

**EXPECTED DATE OF GRADUATION______________________________**

**REASON WHY DECLARING GIS YOUR MINOR (EXPAND ON YOUR SELECTION)?**

**FRIENDS__________     CLASS________      INSTRUCTOR______      WEBSITE _________**

**JOB POTENTIAL___________   CURRICULUM STRUCTURE______________**

**OTHER_______________**

**COURSES COMPLETED TOWARD MINOR (18 credits)**

<table>
<thead>
<tr>
<th>REQUIRED:</th>
<th>DATE</th>
<th>GRADE</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td><strong>Foundation</strong></td>
<td></td>
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<tr>
<td>GEOG 140</td>
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<td>3 HOURS</td>
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<td>or</td>
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<td>GEOG 170</td>
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<td><strong>Technical</strong></td>
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<td>GEOG 372</td>
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<td>3 HOURS</td>
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<tr>
<td>GEOG 472</td>
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<td>3 HOURS</td>
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<tr>
<td><strong>Physical</strong></td>
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<tr>
<td>GEOG 301</td>
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<tr>
<td><strong>Human Dimensions</strong></td>
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<tr>
<td>GEOG 313, 328B, 328C, 330, 331, 332</td>
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<tr>
<td><strong>Integrated</strong></td>
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<tr>
<td>GEOG 415, 416, 431, 441, 442</td>
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<td>3 HOURS</td>
</tr>
</tbody>
</table>

**REMINDER: STUDENT MUST ACHIEVE A “C-” OR BETTER IN EACH COURSE APPLIED TO THE RS MINOR.**

**FOR GEOGRAPHY & GIS MAJORS: A MAXIMUM OF 6 CREDITS CAN OVERLAP WITH YOUR MAJOR**

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**SIGNATURE OF STUDENT**  ______________________  **DATE:**

**BY SIGNING, THE STUDENT ACKNOWLEDGES THAT THE CURRICULUM REQUIREMENTS FOR SUCCESSFULLY COMPLETING THE MINOR HAVE BEEN DISCUSSED AND UNDERSTOOD, AND AGREES TO MEET AT LEAST ONCE PER SEMESTER WITH A GEOGRAPHY ADVISOR TO DISCUSS THEIR COURSEWORK.**

---

**SIGNATURE OF GEOGRAPHICAL SCIENCES ADVISOR**  ______________________  **DATE:**

**THESE STUDENT HAS COMPLETED ALL THE REQUIREMENTS FOR A MINOR IN REMOTE SENSING OF ENVIRONMENTAL CHANGE (RSEC).**